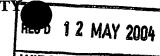
### PATENT COOPERATION TREATY

## **PCT**



# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY OF

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

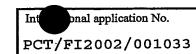
Applicant's or agent's file reference							
	FOR FURTHER ACTION	FOR FURTHER ACTION See Form PCT/IPEA/416					
2020529PC/nu International application No.	International filing date (day/month/year)  17-12-2002		Priority date (day/month/year)				
PCT/FI2002/001033			16-04-2002				
International Patent Classification (IFC)	International Patent Classification (IPC) or national classification and IPC HO4L 12/28, HO4L 29/06, HO4Q 7/38, HO4L 9/32, HO4L 12/14						
HU4L 12/28, HU4L 23/0	0, 110 + 2 // 30/ 110	,,,,,,	•				
Applicant							
Nokia Corporation et	al.						
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This report is the international pre- Authority under Article 35 and to	ransmitted to the applicant accor	rding to Article 30	6.				
2. This REPORT consists of a total							
This report is also accompanied by							
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a (sent to the applicant	t and to the International Burea	nu) a total of	sheets, as follows:				
and/or sheets	description, claims and/or draws containing rectifications author ve Instructions).	rings which have brized by this Auth	been amended and are the basis of this report nority (see Rule 70.16 and Section 607 of the				
cheets which	supersede earlier sheets, but wh	hich this Authorit	y considers contain an amendment that goes				
beyond the d	isclosure in the international app	plication as filed,	as indicated in item 4 of Box No. I and the				
	onal Bureau only) a total of (ind	dicate time and no	umber of electronic carrier(s))				
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Box No. II Priorit	_						
		pard to novelty, in	nventive step and industrial applicability				
	of unity of invention	در به ده					
1 1	•	2) with record to	novelty, inventive step or industrial				
Box No. V Reason application	ned statement under Article 35(a ability; citations and explanation	ns supporting such	h statement				
	n documents cited	_					
Box No. VII Certain	n defects in the international app	plication					
I L	n observations on the internation						
Date of submission of the demand	Dat	te of completion of	of this report				
08-08-2003	04	1-05-2004					
Name and mailing address of the PEA/SE		Authorized officer					
Patent- och registreringsverket							
Box 5055 S-102 42 STOCKHOLM	· Ro	oger Bou	Faisal /LR				
Facsimile No. +46 8 667 72 88 Telephone No. +46 8 782 25 00							
Form PCT/IPEA/409 (cover sheet) (January 2004)							

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

In	onal application No.
PCT/	FI2002/001033

Box	No.1	Basis of the report					
1.	With r	regard to the language, this report is based on the international application in the language in which it was filed, unless vise indicated under this item.					
	$\bowtie$	his report is based on a translation from the original language into the following language english hich is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))					
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	furnish	gard to the elements of the international application, this report is based on (replacement sheets which have been d to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" not annexed to this report):					
	$\boxtimes$	the international application as originally filed/furnished					
		the description:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the claims:					
		pages as originally filed/furnished as amended (together with any statement) under Article 19					
		pages* as amended (together with any statement) under Article 19 pages* received by this Authority on					
		pages* received by this Authority on					
		the drawings:					
	ш	pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
ı		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	If item	4 applies, some or all of those sheets may be marked "superseded."					

#### INTERNATIONAL PRELIMARY REPORT ON PATENTABILITY



		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement	·		•				

YES Claims Novelty (N) 1-47 NO Claims YES Claims 17-20, 40-44 Inventive step (IS) NO 1-16, 21-39, 45-47 Claims YES Industrial applicability (IA) Claims NO

2. Citations and explanations (Rule 70.7)

Documents cited in the international search report:

Claims

D1: EP 1191763, A2 D2: WO 0221464, A2 D3: WO 0219593, A2 D4: US 6112078, A D5: WO 0167716, A1

D1 relates to an access authentication system provided for authenticating access for visitors to a wireless local area network (W-LAN), the operator of which administers a visitor authentication, authorisation and accounting (VAAA) The user, on requesting visiting access to the W-LAN, inputs, via the VAAA server, identity information that enables the HAAA to issue a personal identification number (PIN) which is encoded and forwarded, preferably by way of a short message service (SMS), to the user's mobile telephone. This encoded to authenticate the browser is transferred to and the costs W-LAN. requested visiting the access to associated with such access are billed to the user's cellular mobile account; the requested access being achieved via the user's browser. Alternatively, the user may call the VAAA on the mobile telephone to provide said identity information, in which case, the subject telephone call is preferably forwarded to the HAAA via a premium rate call unit.

D2 provides a method of ordering, paying for and delivering goods and services using a mobile station. This method starts by authenticating the mobile station is permitted access to a telecom infrastructure. It then accesses a gateway by the

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: BOX V

mobile station and transmits an identification code for the mobile station to the gateway. This method then requests a digital certificate by the mobile station from the gateway used for ordering and paying for a product or service from a seller using the certificate. The method then verifies the identity of the mobile station by the gateway accessing an authentication centre and comparing variables computed by the mobile station and variables computed by the gateway. It then verifies the legitimacy of the gateway by comparing variables computed by the gateway with the variables computed delivers station. The method mobile certificate to the mobile station by the gateway when the identity of the mobile station and the gateway has been verified.

D3 reveals a system and method for verifying the identity of an end-user. The end-user requests to access an external application. The external application sends an authentication request to an authentication server, which generates a random token. The generated token is transmitted to the end-user. The enters the generated token and identification number into a cellular terminal connected to a GSM network. At least the token is encrypted using a secret stored within the cellular terminal and transmitted through the GSM network to an authentication gateway. token is decrypted by the authentication gateway using either the same secret key or a key matched to the secret key. The token is then transmitted to the authentication server where the received key is compared to the generated key. The results of the comparison are transmitted to the external application.

D4 relates to a method for obtaining at least one item of user authentication data. The method involves obtaining user specific authentication data at least partly by using paging or short message service.

D4 and D5 are state of the art documents.

The claimed invention is based on the idea that a data transfer device user is authenticated utilizing the identification data of the subscriber of a mobile communications system.

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#### Supplemental Box

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The invention according to independent claims 1 and 24 differs from D1, which is the most relevant document, by the steps of checking the access rights of the subscriber and by generating a password for logging in to the service. However in D1, an authentication of the subscriber, requesting access to a service, is made by using the personal identification number (PIN). Also, identity information is used as input via the VAAA for issuing personal access cod (PIN) (abstract).

In D2 a digital certificate is used, in response to a request including identity information, to authenticate and give the user access to services (page 3, "Disclosure of the invention").

In D3, a procedure is mentioned for generating a logging in password in response to a service request. This access request includes identification information in the form of a Mobile Subscriber ISDN number (MSISDN) (page 1 line 5- page 3, line 22; page 8, line 20- line 27; page 11, line 1- line 20).

D1-D3 discloses inventions that solve the problem of authenticating a subscriber to access a requested service in an efficient way.

Thus, with reference to any of D1-D3, the invention according to the independent claims 1 and 24 is obvious to a person skilled in the art and therefore not considered to involve an inventive step.

The invention according to dependent claims 2-16, 21-23, 25-39 and 45-47 comprises only steps and details that are considered obvious to a person skilled in the art and therefore not considered to involve an inventive step, with reference to D1-D3.